

## EAST Search History

## EAST Search History (Prior Art)

| Ref # | Hits | Search Query   | DBs   | Default Operator | Plurals | Time Stamp          |
|-------|------|--|---|------------------|---------|---------------------|
| S12   | 3738 | (KURDZIEL near MICHAEL) (DENNIS near GARY) (HARRIS near CORPORATION)   | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB     | OR               | ON      | 2009/08/20<br>08:38 |
| S13   | 339  | S12 and (s-box sbox substitut\$3 replac\$5<br>exchang\$3 switch\$3 swap\$4) same<br>(diffus\$3 mix\$3 dispers\$3 spread\$3<br>distribut\$3 scatter\$3)                         | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2009/08/20<br>08:38 |
| S14   | 261  | S13 and (bit\$3 byt\$3 block\$3 piec\$3 part<br>portion section segment\$3 division)<br>near5 (data information key subkey<br>number quantity signal input\$4 figure<br>digit) | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2009/08/20<br>08:50 |
| S15   | 54   | S14 and (bit\$3 byt\$3 block\$3 piec\$3)<br>near5 (add\$3 combin\$5 concatenat\$3<br>exclusive XOR transform\$5 mathematic<br>\$4)   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2009/08/20<br>08:57 |
| S16   | 48   | S14 and (part portion section segment\$3<br>division) near5 (add\$3 combin\$5<br>concatenat\$3 exclusive XOR transform\$5<br>mathematic\$4)                                    | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2009/08/20<br>08:57 |
| S18   | 54   | S15 and (add\$3 combin\$5 concatenat\$3<br>exclusive XOR transform\$5 mathematic<br>\$4) same (data information key subkey<br>number)  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2009/08/20<br>09:03 |
| S19   | 34   | S16 and (add\$3 combin\$5 concatenat\$3<br>exclusive XOR transform\$5 mathematic<br>\$4) same (quantity signal input\$4 figure<br>digit)                                       | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2009/08/20<br>09:05 |
| S20   | 40   | S16 and (add\$3 combin\$5 concatenat\$3<br>exclusive XOR transform\$5 mathematic<br>\$4) same (data information key subkey<br>number)  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2009/08/20<br>09:05 |

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| S21 | 84    | S18 S19 S20  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/08/20<br>09:06 |
| S22 | 4     | "6108421".pn. "5623549".pn.  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/08/20<br>09:35 |
| S23 | 14187 | (380/28,29,37,42,43,265,277 713/168<br>370/342 708/200,209,250,252).ccls.  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/08/20<br>20:17 |
| S24 | 2533  | S23 and (s-box sbox substitut\$3 replac\$5<br>exchang\$3 switch\$3 swap\$4) same<br>(diffus\$3 mix\$3 dispers\$3 spread\$3<br>distribut\$3 scatter\$3)                         | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/08/20<br>20:19 |
| S25 | 2292  | S24 and (bit\$3 byt\$3 block\$3 piec\$3 part<br>portion section segment\$3 division)<br>near5 (data information key subkey<br>number quantity signal input\$4 figure<br>digit) | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/08/20<br>20:21 |
| S26 | 937   | S25 and (bit\$3 byt\$3 block\$3 piec\$3)<br>near5 (add\$3 combin\$5 concatenat\$3<br>exclusive XOR transform\$5 mathematic<br>\$4)   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/08/20<br>20:22 |
| S27 | 666   | S25 and (part portion section segment\$3<br>division) near5 (add\$3 combin\$5<br>concatenat\$3 exclusive XOR transform\$5<br>mathematic\$4)                                    | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/08/20<br>20:23 |
| S29 | 1212  | S26 S27  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/08/20<br>20:51 |
| S30 | 1028  | S29 and (add\$3 combin\$5 concatenat\$3<br>exclusive XOR transform\$5 mathematic<br>\$4) near5 (data information key subkey<br>number)   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/08/20<br>20:52 |
| S32 | 791   | S29 and (add\$3 combin\$5 concatenat\$3<br>exclusive XOR transform\$5 mathematic<br>\$4) near5 (quantity signal input\$4 figure<br>digit)                                      | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/08/20<br>20:55 |

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| S33 | 1129    | S30 S32  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/08/20<br>20:55 |
| S34 | 176     | S33 and (s-box sbox substitut\$3 replac\$5<br>exchang\$3 switch\$3 swap\$4) same<br>(diffus\$3 mix\$3 dispers\$3 spread\$3<br>distribut\$3 scatter\$3) same Shift\$3           | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/08/20<br>20:57 |
| S35 | 97      | S34 and Shift adj register   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/08/20<br>21:17 |
| S36 | 43      | S35 and (lookup look-up)   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/08/20<br>21:19 |
| S37 | 1324669 | (encryption adj standard) AES Rijndael   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/08/20<br>23:26 |
| S38 | 43094   | S37 and (s-box sbox substitut\$3 replac\$5<br>exchang\$3 switch\$3 swap\$4) same<br>(diffus\$3 mix\$3 dispers\$3 spread\$3<br>distribut\$3 scatter\$3)                         | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/08/20<br>23:26 |
| S39 | 14145   | S38 and (bit\$3 byt\$3 block\$3 piec\$3 part<br>portion section segment\$3 division)<br>near5 (data information key subkey<br>number quantity signal input\$4 figure<br>digit) | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/08/20<br>23:27 |
| S41 | 2688    | S39 and (bit\$3 byt\$3 block\$3 piec\$3)<br>near5 (add\$3 combin\$5 concatenat\$3<br>exclusive XOR transform\$5 mathematic<br>\$4)   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/08/20<br>23:28 |
| S42 | 3903    | S39 and (part portion section segment\$3<br>division) near5 (add\$3 combin\$5<br>concatenat\$3 exclusive XOR transform\$5<br>mathematic\$4)                                    | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/08/20<br>23:30 |
| S43 | 5345    | S41 S42  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/08/20<br>23:31 |

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| S44 | 2968 | S43 and (add\$3 combin\$5 concatenat\$3 exclusive XOR transform\$5 mathematic \$4) near5 (data information key subkey number)                               | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/08/20<br>23:31 |
| S45 | 2577 | S43 and (add\$3 combin\$5 concatenat\$3 exclusive XOR transform\$5 mathematic \$4) near5 (quantity signal input\$4 figure digit)                            | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/08/20<br>23:32 |
| S46 | 3797 | S44 S45   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/08/20<br>23:33 |
| S47 | 585  | S46 and (s-box sbox substitut\$3 replac\$5 exchang\$3 switch\$3 swap\$4) same (diffus\$3 mix\$3 dispers\$3 spread\$3 distribut\$3 scatter\$3) same Shift\$3 | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/08/20<br>23:33 |
| S49 | 283  | S47 and (Shift adj register) rowshift shiftrow  | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/08/20<br>23:35 |
| S50 | 155  | S49 and (mix\$3 near1 column) mixcolumn mixingcolumn columnmix columnmixing   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/08/20<br>23:39 |
| S53 | 59   | S50 and (lookup look-up lookingup (look \$3 near1 table))   | US-PGPUB;<br>USPAT;<br>USOCR; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2009/08/20<br>23:42 |

8/24/2009 10:20:18 PM

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